# JAMES E MAASS DWJEM2 1-2 DINWIDDIE COUNTY

## VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPL	LICATION AGREEMENT - E	BIOSOLIDS AND INL	DUSTRIAL RESIDUALS
A. This land application agreed here as "Landowner", and Runtil it is terminated in writing the event of a sale of one or identified in this agreement of the same	eement is made on 12-10- ecyc Systems, Inc. referred to g by either party or, with respec- more parcels, until ownership	here as the "Permittee" of to those parcels that a of all parcels changes.	
Landowner: The Landowner is the owner	of record of the real property local	ocated in Discussed	ر Virginia, which includes the ed on the tax map(s) with county
Table 1.: Parcels aut	horized to receive biosolids, wa	ater treatment residuals	or other industrial sludges
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
91-10			T da F alcer ID
			We give the terms
the state and a somethic dear for	Sam Marker of what has you mile the s	<u>- 1997 - Barago Angela</u> da Santaga Sa	
7 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (		and the second second second	
		e all the control taken by	k ( )
	Land Application Sites are identified on adowner is the sole owner of th		
Notify the purchaser of that than the date of the p     Notify the Permittee of	of the sale within two weeks foll	ne Landowner shall: public access and crop lowing property transfer	management restrictions no later
nomy the relimited in medial	agreements for land application ely if conditions change such the agreement becomes invalid or	and the fields are no les	AND A CONTRACT OF THE PARTY OF
The Landowner hereby grants agricultural sites identified about inspections on the land identified purpose of determining complements of the biosolids of the land identified by the la	permission to the Permittee to	o land apply residuals a downer also grants pern ter land application of p ents applicable to such	s specified below, on the nission for DEQ staff to conduct
⊠ Yes ⊔ No ⊠ Yes	□ No ⊠Yes		☑ Yes ☐ No
Printed name  James E. Maass  By:  Title*	Mailing Address 2704 PobSon Henneo, VA 2 Phone No. 804-66	C4. 23233	ndowner Signature
* I certify that I have authority to	sign for the landowner as indicated	by my title as executor. Trus	tee or Power of attorney, etc.
^ ☐ I certify that I am a responsible proprietorship, LLC, municipality, st	official for officer authorized to act	on behalf of the following co	proporation, partnership,
Permittee:		= 0	

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

Printed nam	ne	Mailing Address	Permittee- Authorized Representative
	Susan Trumbo	PO Box 562, Remington Virginia 22734	Signature
Title	Technical Manager	Phone No. 540-547-3300	Gruha

			# E	
Permittee: _	Recyc	Systems, Inc	County or City: _	Dinwiddie
Landowner:	James	Maass		
Landowner	Site Manageme	ent Requirements:		
1-1-1-1-1	or probonds, the	components of bloson	as and brober usingling and	nation regarding regulations governing the land application of biosolids.
I have also bee identified below	en expressly advisor wast be complied	sed by the Permittee th	at the site management rec	uirements and site access restrictions operty in order to protect public health, and
	ement the following			y ownership following the land application
~.000,000	ion Signs: I will n s land application impleted.	ot remove any signs po site, unless requested	osted by the Permittee for the by the Permittee, until at le	ne purpose of identifying my field as a ast 30 days after land application at that
2. Public A	ccess		S .	
b. c.	Public access to any application o this same period aerosols; Turf grown on lar biosolids when the	land with a low potential following in the biosolids. No biosolid of time unless adequated where biosolids are	al for public exposure shall is amended soil shall be ex te provisions are made to pi	be restricted for at least one year be restricted for at least 30 days following cavated or removed from the site during revent public exposure to soil, dusts or ed for one year after application of h potential for public exposure or a lawn,
3. Crop Res a. b. l c. l d. 0 e. f	strictions: Food crops with he shall not be harve Food crops with happlication of biosmonths prior to in Food crops with holosolids remain cother food crops	narvested parts that tou ested for 14 months after larvested parts below to solids when the biosolic corporation into the solic larvested parts below the land fiber crops shall not be harvested for 30	the application of biosolic he surface of the land shall to surface of the land surface. It is surface of the land shall a time period of less than for the harvested for 30 days.	not be harvested for 20 months after the ce for a time period of four (4) or more not be harvested for 38 months when the ur (4) months prior to incorporation. after the application of biosolids; of biosolids (60 days if fed to lactating
Folloy a. M b. L	vieat producing in -actating dairy an	plication to pasture or he estock shall not be gra	nayland sites: azed for 30 days, ed for a minimum of 60 day	s.
5. Suppleme residuals	ental commercial applications such	ertilizer or manure app	lications will be coordinated	with the biosolids and industrial seded as identified in the nutrient 104.2 of the Code of Virginia;
<ol><li>Tobacco, years follo</li></ol>	because it has be	en shown to accumulation of biosolids or indu	te cadmium should not be	grown on the Landowner's land for three admium equal to or exceeding 0.45
M				12-12-19
Landown	er's Signature			Date Date
And		McKe	ney NA 23872	
Juni 1		804-7.	31-4703	12-10-17

mailing address & phone

Date

Operator's Signature

#### Landowner Coordination Form

This form is used by the Permittee to identify properties (tax parcels) that are authorized to receive biosolids and/or industrial residuals, and each of the legal landowners of those tax parcels. A Land Application Agreement-Biosolids and Industrial Residuals from original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

Permittee:

Recyc Systems, Inc

Site Name:

James E. Maass

County or City:

**Dinwiddie County** 

Please Print

Signature not required on this page

Tax Parcel ID(s)	Landowners (s)
91-10	James E. Maass
	±
	e e

# **FARM DATA SHEET**

SITE NAME:	James E. Maass	COUNTY:	Dinwiddie
OWNER:	James E. Maass	OPERATOR:	Robert T. Maass
OWNER'S	2707 Robson Ct.	OPERATOR'S	11012 Cutbank Church Rd.
ADDRESS:	Henrico, VA 23233	ADDRESS:	McKenney, VA 23872
OWNER'S TELEPHONE:	804-691-2928	OPERATOR'S TELEPHONE:	804-731-4703
GENERAL FARM TYPE:	Hay/ Pasture	CELL PHONE:	F-
# CATTLE:	60	EMAIL:	(-
LAGOON or SLURRY:	None	LATITUDE:	36.934
TOPO QUAD:	McKenney	LONGITUDE:	-77.698
COMMENTS:		METHOD OF DETERMINATION:	Online Maps
	60+ cows he roatates betwert Maass, and Thomas Al	veen the following permitted bernathy.	sites: Douglas Wray,
			вв 🚿

# FIELD CHANGES JAMES E. MAASS DINWIDDIE COUNTY

# NEW FIELD 1 IS OLD FIELD 1 AND THE LOWER PART OF OLD FIELD 2.

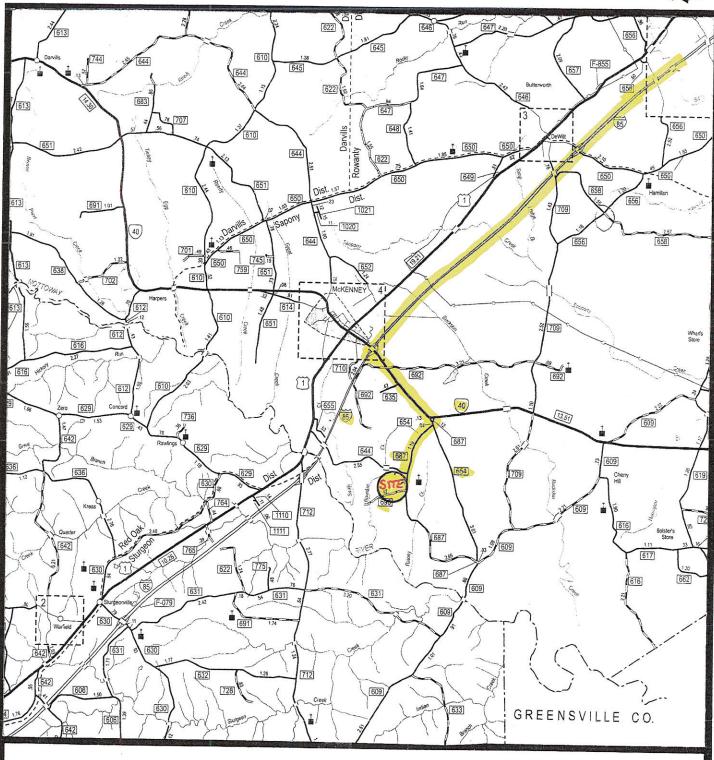
NEW FIELD 2 IS THE UPPER PART OF OLD FIELD 2.

# MAPS

# Recyc Systems...

# (Biosolids Land Application)





Scale:

1 inch = 2 miles

DWJEM 1-2

12-18-19

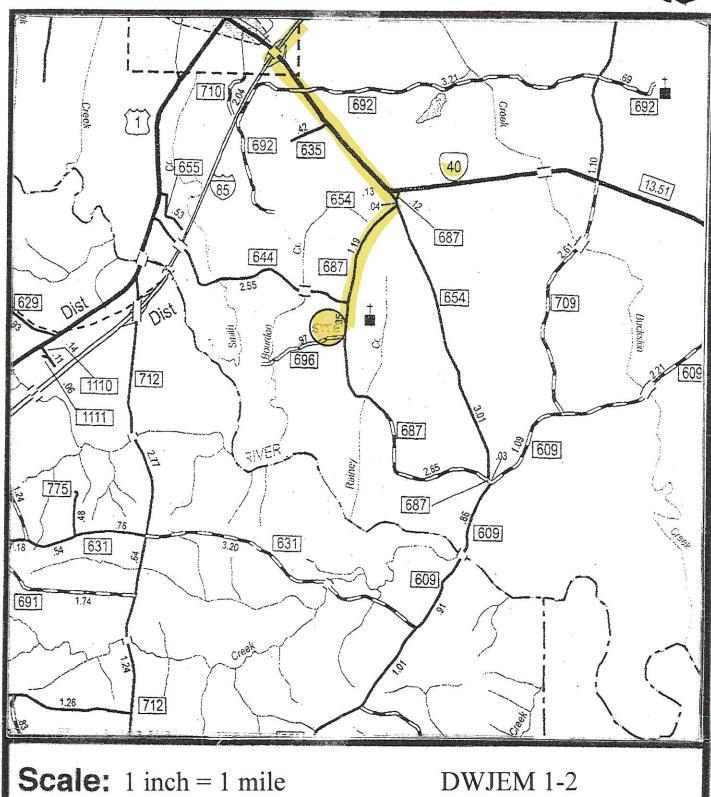
**Truck Route marked** in Yellow

VICINITY MAP

# Recyc Systems.

(Biosolids Land Application)





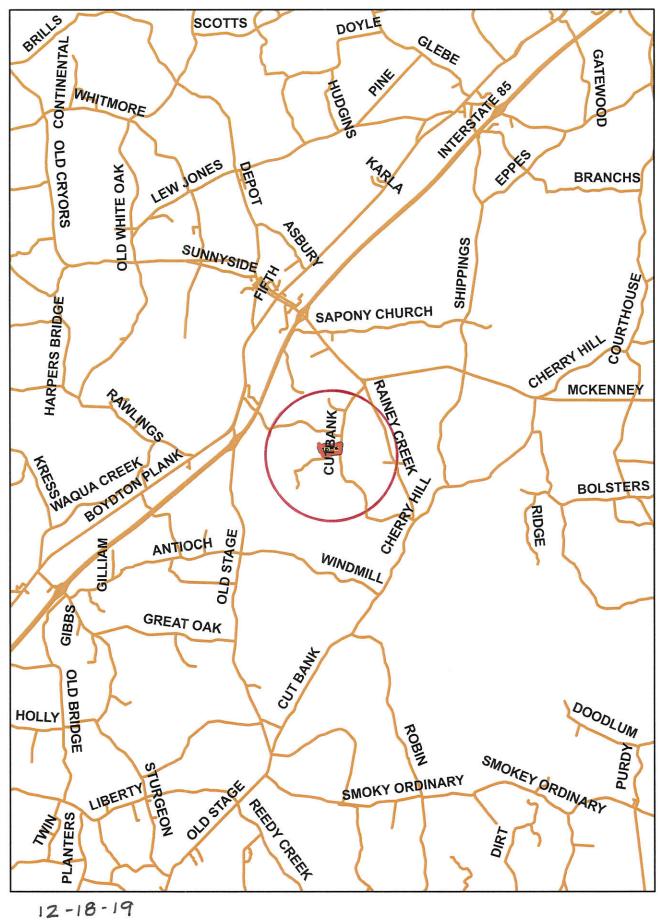
12-18-19

Truck Route marked in Yellow

VICINITY MAP

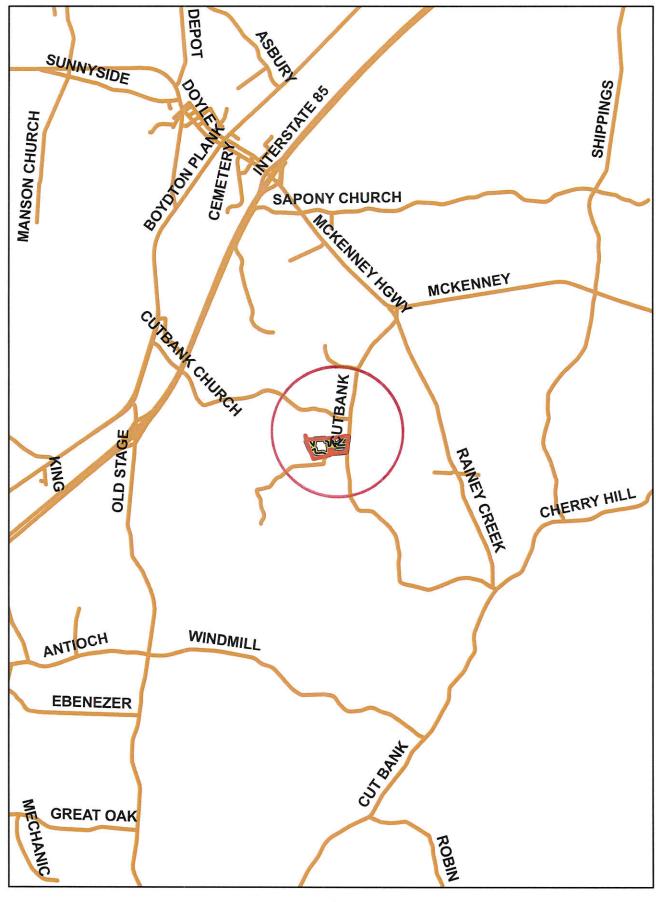
N





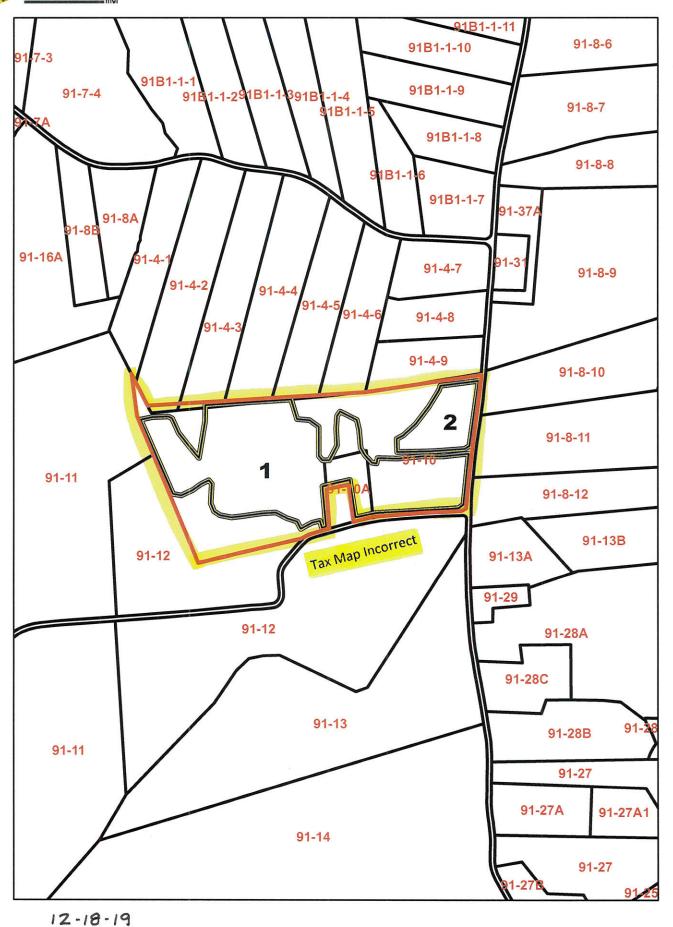








James E. Maass DWJEM





Tax Map

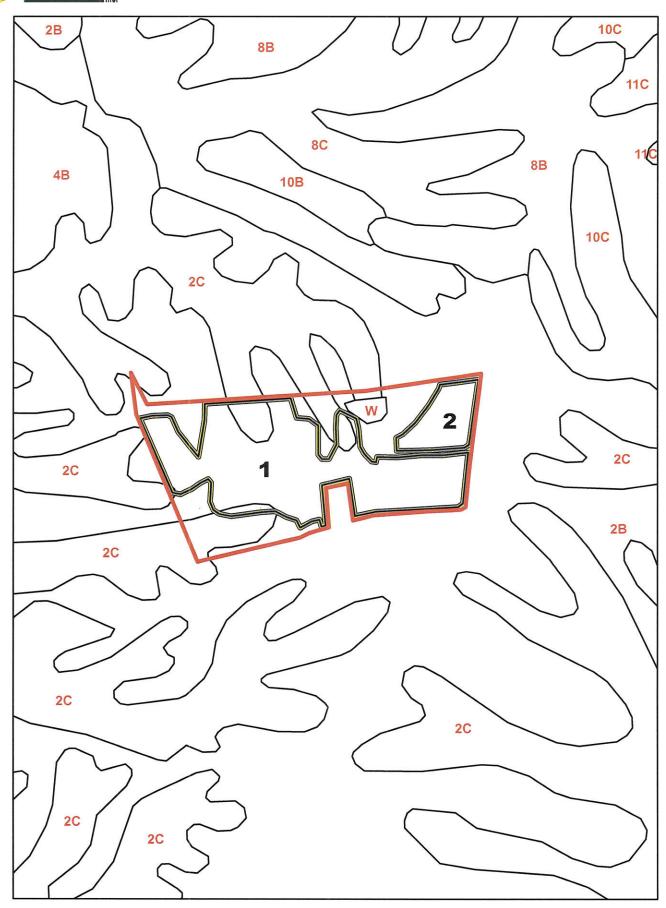
1 in = 660 feet

# **ADJOINING LANDOWNERS**

# JAMES E. MAASS

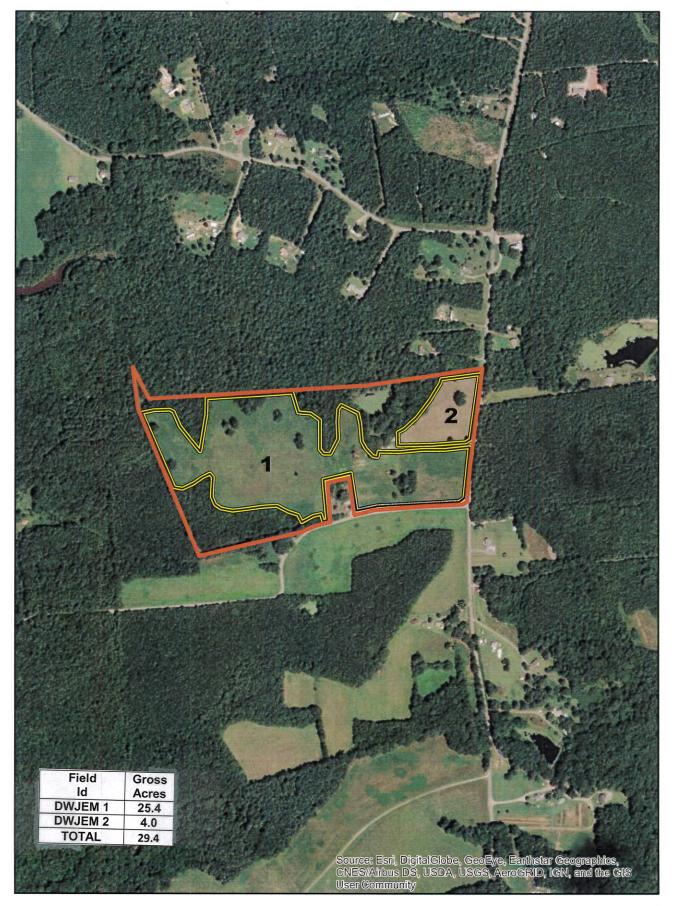
# **DINWIDDIE COUNTY**

Tax Map	Parcel #	Owner Name(s)
91	10A	Pamela C. Sherman
	11	Peter W. Janzen
	12	Frances H. Lilley and Katherine H. McClelland
91-4	1	Warren R. Marshall
	2	Warren R. Marshall
	3	Hope C. Hall
	4	Barry P. Jr. and Jamie L. McFadden
	5	Kimberly M. Stokes
	6	Carol J. Holton
	9	Julie A. and Jackie L. Chapman
91-8	9	Jolene M. Cave et. als.
	10	Kenneth K. White
	11	Gregoria Morales Davis Family Trust, Gregoria Morales Davis Trustee
	12	Gregoria Morales Davis Family Trust, Gregoria Morales Davis Trustee





Soil Map

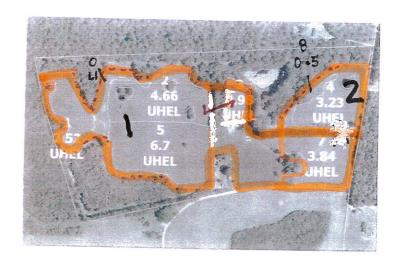




# Recyc Systems.

(Biosolids Land Application)





T908

**Scale:** 1 inch = 660 feet

DWJEM 1-2

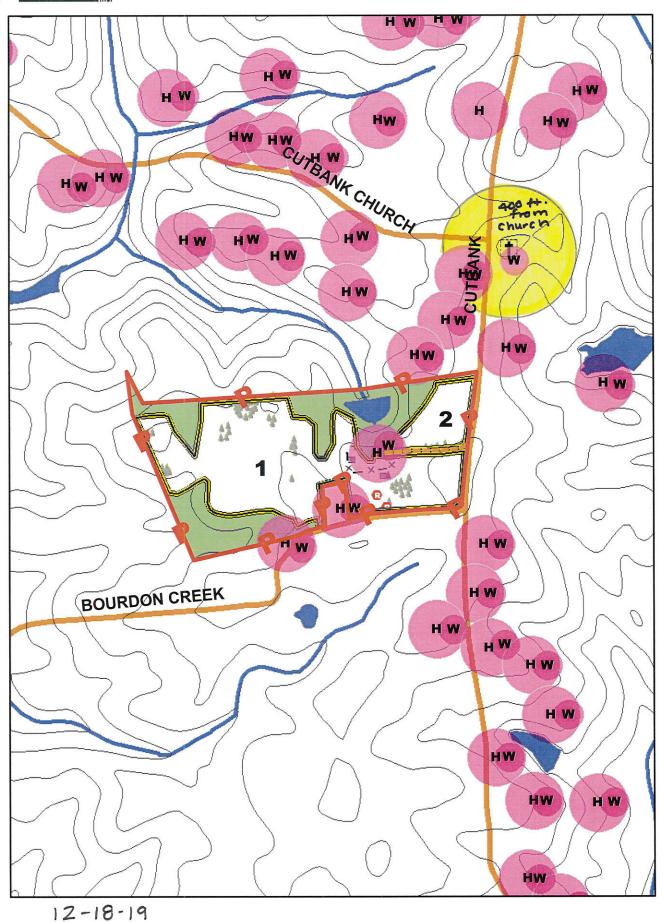
# **Legend For Site Plan**

Symbol	Feature	Minimum Setback
H/W	House and Well	200 feet from occupied dwelling * 100 feet from water supply wells or springs
WS	Well or Spring	100 feet from water supply wells or springs
SHEARING I ACCRESSED I PRODUCED	Streams or Surface Water	35 feet with 35 foot vegetated buffer 100 feet without vegetated buffer
ш	Wet Spot	
	Trees and Woods	
	Private Drive	
R	Rock Area/Rock Outcrop	25 feet from rock outcrops 50 feet from limestone rock outcrops
≣ .	Severely Eroded Spot	18 Inch minimum depth of soil
S	Sink Hole	100 feet from open sinkholes 50 feet from closed sinkholes
THE COMPANY OF STATE THE PROPERTY AND THE PARTY AND THE	State Road	10 feet from side of roadway
	Fence / Field Boundary	
P P P	Property Line	100 feet from property line *
SLS	Slope	15% maximum
	Hashed out Area	No application

<sup>\*</sup>Buffer can be reduced or waived upon written consent from landowner.



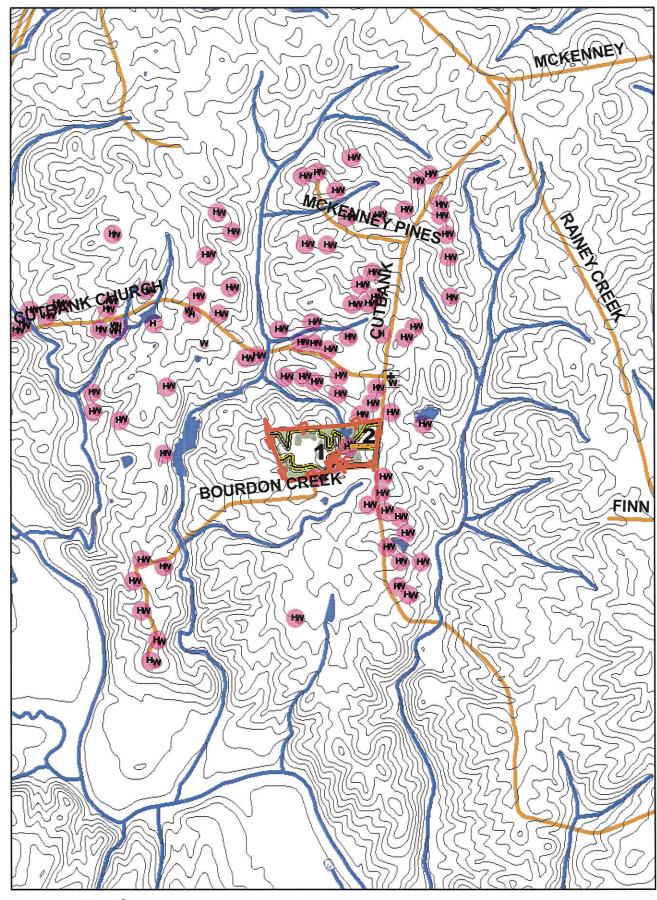
James E. Maass DWJEM





Site Map







# RECYC SYSTEMS, INC FIELD DATA SHEET

Field	DEQ	Gross	Environ	nentally S	ensitive	Soils		Tax	FSA
1-14:5:4:	Control ID	A = ===	14/-/	Bed Rock/	Surf/	E El d	Hydro	M#	Tue of #
Identification	Control ID	Acres	Water Table	Shallow	Leach	Freq Flood	Мар	Мар#	Tract #
									F 0, 1, 2,
DWJEM 1	51053-00208-0000	25.4	=	_	_	-	CU 13	91-10	3, 5, 7
									T 908
DWJEM 2	51053-00209-0000	4.0	-	-	-	-	CU 13	91-10	F 4, 8
				197					
TOTAL ACRES IN									
SITE		29.4							

Page 1 of 2

Report Number: 17-172-0507

Account Number: 70594

Send To: Recyc Systems Inc Susan Trumbo

> 8455 Whiteshop Road Culpepper VA 22701



7621 Whitepine Road, Richmond, VA 23237 Main 804-743-9401 ° Fax 804-271-6446 www.waypointanalytical.com

"Every acre...Every year."™

Grower: James E Maass

#### **SOIL ANALYSIS REPORT**

Analytical Method(s):

SMP Buffer pH

Mehlich 3 Loss On Ignition Water pH

Date Received: 06/21/2017

Date Of Analysis: 06/22/2017

Date Of Report: 06/23/2017

		ОМ	W/V	ENR		Phosphorus		Potassium	Magnesium	Calcium	Sodium	p	Н	Acidity	C.E.C
Sample ID Field ID	Lab Number	% Rate	Soil Class	lbs/A	M3 ppm Rate	ppm Rate	ppm Rate	K ppm Rate	Mg ppm Rate	Ca ppm Rate	Na ppm Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
DWJEM-1	06375	1.8 L		81	35 M			27 VL	71 H	635 H		7.1		0.0	3.8
DWJEM-2	06376	1.0 L		66	138 VH			59 L	64 H	299 M		6.3	6.90	0.3	2.5

		Percei	nt Base	Saturati	on	Nitrate	Sulfur	Zir	ıc :	Manga	nese	Iron	Copper	Boron	Soluble Salts	
Sample ID Field ID	K %	Mg %	Ca %	Na %	H %	NO <sub>3</sub> N ppm Rate	S ppm Rate	Z ppm	n Rate	Mı ppm	-2 C-2 C2	Fe ppm Rate	Cu ppm Rate	B ppm Rate	SS ms/cm Rate	
DWJEM-1	1.8	15.6	83.6		0.0			2.4	М	10	М					
DWJEM-2	6.1	21.3	59.8		12.0			1.9	L	10	М					

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: Waypoint Analytical Virginia, Inc.

Pauric McGroary

Page 2 of 2

**Report Number: 17-172-0507** 

Account Number: 70594

Waypoint Waypoint ANALYTICAL

7621 Whitepine Road, Richmond, VA 23237 Main 804-743-9401 ° Fax 804-271-6446 www.waypointanalytical.com

"Every acre...Every year."™

Grower: James E Maass

Send To: Recyc Systems Inc Susan Trumbo

8455 Whiteshop Road Culpepper VA 22701

**Date Received:** 06/21/2017

**Date Of Report**: 06/23/2017

#### SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N Ib/A	Phosphate P <sub>2</sub> O <sub>5</sub> Ib/A	Potash K <sub>2</sub> O Ib/A	Magnesium Mg Ib/A	Sulfur S Ib/A	Zinc Zn Ib/A	Manganese Mn Ib/A	Iron Fe Ib/A	Copper Cu Ib/A	Boron B Ib/A
DWJEM-1	Adjust pH to 6.8	0	0.0				0			2			
DWJEM-2	Adjust pH to 6.8	0	1.0				0			2			

#### Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Pauric Mc George

Pauric McGroary

#### THE PLANNER IS NOT STATE CERTIFIED

### Nutrient Management Plan Balance Sheet (Spring, 2020-Summer, 2022) James E. Maass Planner: John Doe

Tract: 908

Location: Dinwiddie

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (Ibs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	(d)	Man/Bios N-P-K (Ibs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
0, 1, 2, 3, 5, 7/DWJEM 1(N)	25/25	2020	Grass Pasture	50-30-40	0/0				50-30-40	N/A			
4 8/DWJEM 2(N)	4/4	2020	Grass Pasture	50-30-40	0/0				50-30-40	N/A			

**Commercial Application Methods:** 

br - Broadcast ba - Banded sd - Sidedress

Notes:

### Soil Test Summary

Tract	Field	Acre	Date	P2O5	K20	Lab	Soil pH	Lime Date	rec. lime tons/Ac
908	DWJEM 1	25	[No Test]						
908	DWJEM 2	4	[No Test]						

# Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
908	908/0, 1,	DWJEM 1	25	Appling	IVa	II	Ш	III	
	908/4, 8	DWJEM 2	4	Appling	IVa	П	Ш	Ш	

# Yield Range

Field Productivity Group	Corn Grain Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass/Hay Tons/Acre
	>170	>80	>64	>6	>4.0
ii	150-170	70-80	56-64	4-6	3.5-4.0
iii	130-150	60-70	48-56	<4	3.0-3.5
IV	100-130	50-60	40-48	NA	<3.0
V	<100	<50	<40	NA	NA

# **Farm Summary Report**

Plan: New Plan Spring, 2020 - Summer, 2022

Farm Name: James E. Maass

Location: Dinwiddie Specialist: John Doe N-based Acres: 29.4

P-based Acres: 0.0

**Tract Name:** 908 FSA Number: 908

Location: Dinwiddie

Field Name: DWJEM 1

Total Acres: 25.40 Usable Acres: 25.40

FSA Number: 0, 1, 2, 3, 5, 7

Tract: 908

Location: Dinwiddie

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft Distance to stream: 0 ft

### Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

[NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES

90 2B Appling 10 2C Appling

### Field Warnings:

Field Name: DWJEM 2

Total Acres: 4.00 Usable Acres: 4.00

FSA Number: 4, 8 Tract: 908

Location: Dinwiddie

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft Distance to stream: 0 ft

### Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

[NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES

100 2B Appling

Field Warnings: